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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,588	09/06/2005	Yoshio Akiyama	122473	2781
25944	7590	12/20/2007	EXAMINER	
OLIFF & BERRIDGE, PLC P.O. BOX 320850 ALEXANDRIA, VA 22320-4850			JACOBSON, MICHELE LYNN	
ART UNIT	PAPER NUMBER			
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/521,588	Applicant(s) AKIYAMA ET AL.
	Examiner MICHELE JACOBSON	Art Unit 4174

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 06 September 2005.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-12 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-12 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 18 January 2005 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/06/08)
 Paper No(s)/Mail Date 1/18/05

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____

5) Notice of Informal Patent Application

6) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 4 and 12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
3. Claim 4 recites the limitation "The blow molded article according to claim 1, wherein said pinch-off lines are formed within a circle which is concentric with said bottom face and which has a diameter less than ...". The term "bottom face" is not recited elsewhere in the claims and therefore is insufficient antecedent basis for this limitation in the claims.
4. The term "an inner layer formed of a synthetic resin having a lower compatibility with a synthetic resin forming said outer layer" in claim 12 is a relative term which renders the claim indefinite. The term "lower compatibility" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. It is impossible to determine the scope of the claim since what the compatibility inner layer with the outer layer is meant to be compared to is not defined.

Claim Rejections - 35 USC § 102

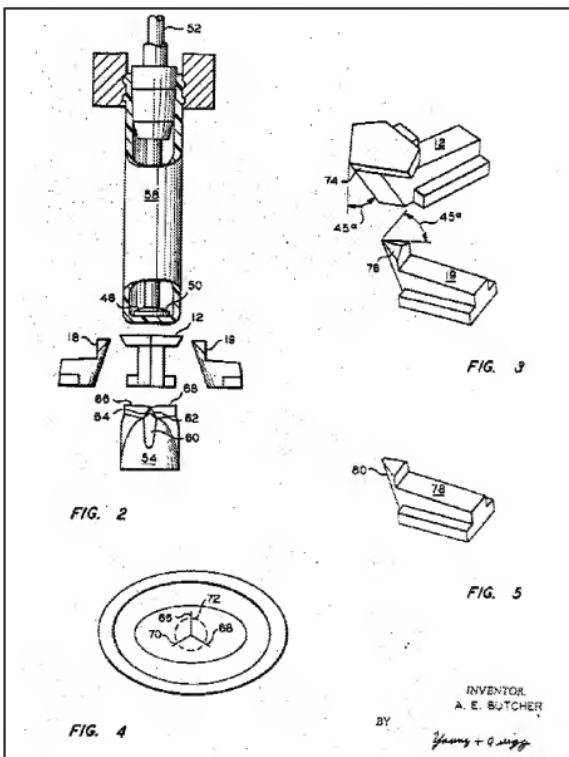
5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless —

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Butcher U.S. Patent No. 3,663,522 (hereafter referred to as Butcher).

7. Butcher teaches a biaxially oriented polyethylene or polypropylene blow molded article formed by multiple direction pinch off sealing of a hollow parison. (Col. 2, lines 29-32, 62-67, Fig. 2-5) Although 3 blades



are shown in the figure there may be any number of radially spaced blades in excess of one. (Col. 3, lines 9-12) Tuck in members (19, 78) are utilized to restrict the total length of the fusion lines to a comparatively small value as compared with the total area of the bottom of the finished container. (Col. 4, lines 28-31, Fig. 4) Once the parison is sealed of using the apparatus disclosed it is blow molded to form a bottle. (Col. 5, lines 10-11) In an example embodiment, Butcher recites a bottle formed by three way pinching-off of a parison that results in pinch-off lines that define a diameter of 2.4 cm on the bottom of an oval shaped bottle measuring about 7 cm by 5 cm (Col. 5, lines 12-16, Fig. 4)

8. Butcher clearly teaches the limitations of a biaxially oriented polymer blow molded bottle with three radially spaced pinch-off lines caused by mold pieces as claimed in claims 1, 2 and 5.

9. The limitations set forth in claim 3 are inherently anticipated by Butcher. Since Butcher recites that there may be any number of blades in excess of one, and that the blades should be radially oriented, an embodiment of the invention with 4 blades would inherently produce a blow molded article with 4 pinch-off lines arranged in a cross shape as claimed in claim 3.

10. The example recited by Butcher is illustrative of how bottle produced by the method of Butcher meets the limitation that the pinch-off lines are formed within a circle that has a diameter less than $\pi D_p/2$ as recited in claim 4. Even though the bottle formed in the example is oval shaped, if you assume that the parison and the pinch-off lines stretched the same amount during blow molding and designate D_p the diameter of

the short axis of the oval (5 cm) the diameter recited for the circle formed by the pinch-off lines is less than $\pi D_p/2$ as recited in claim 4.

Claim Rejections - 35 USC § 103

11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

12. Claims 6-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Butcher U.S. Patent No. 3,663,522 and Schmidt et al. U.S. Patent Publication No. 2002/0061371, now U.S. Patent No. 6,546,133 (hereafter referred to as Schmidt).

13. Butcher is silent regarding multi-layer laminated parisons incorporating PET, PEN, EVOH, polyethylene, polypropylene, virgin polymer, recycled polymer and barrier layers.

14. Schmidt teaches a multilayer polymer container. In one embodiment it is a two-material, three-layer structure that includes exterior inner and outer layers of virgin PET homopolymer or copolymer and in interior core layer of post-consumer PET. (Col. 3, lines 7-10) Barrier layers such as PEN, ethylene/vinyl alcohol and MXD-6 nylon are also recited. (Col. 11, lines 49-55) Polyolefins such as polyethylene and polypropylene, PET and PEN are recited to potentially comprise one or more layers of the preform or container. (Col. 10, lines 39-46)

15. Schmidt and Butcher are both directed towards the same field of invention. The motivation to combine the pinch-off technique of Butcher with the bottle compositions of Schmidt would have been as recited by Butcher that it would have been desirable to provide a seam that was more resistant to failure in the pinch-off area. (Col. 2, lines 29-31)

16. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have formed bottles as recited by Butcher with inner, middle and exterior layers of selected from PET, PEN, virgin polymer, recycled polymer, polypropylene, polyethylene, ethylene vinyl alcohol and gas barrier layers as recited by Schmidt and claimed in claims 7-11. Although it is unclear what is meant by the inner layer having a lower compatibility with the outer layer recited in claim 12, it is presumed that since Schmidt recites that the inner and outer layers of the bottle recited by Schmidt can be composed of different polymers that the inside would have a lower compatibility with the outside layer than with itself.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHELE JACOBSON whose telephone number is (571)272-8905. The examiner can normally be reached on Monday-Friday 7:30 AM-5 PM EST (First Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, D. Lawrence Tarazano can be reached on (571) 272-1515. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D. Lawrence Tarazano/
Supervisory Patent Examiner, Art Unit 4174

Michele L. Jacobson
Examiner
Art Unit 4174

/M. J./